

SUBSTITUTE ABSTRACT

PROGRAM MONITORING METHOD AND DEVICE

Middleware associated with a program is monitored by adding an instrumentation part to the program. The instrumentation part generates a message in response to at least one operation performed by the middleware and detected by the instrumentation part, and transmits this message to a monitoring process. The monitoring process initiates at least one action. A number of the messages may be presented as one or more of a list, a tree chart and a message sequence chart.